

AMENDMENT
U.S. Appl. No. 09/407,008

IN THE CLAIMS:

1.-69. (Cancelled)

70. (New) A wireless device comprising:

a transceiver adapted to transmit and receive spread spectrum signals wherein the wireless device is adapted to transmit a user signal during a first time segment of a first time slot of a polling loop time cycle, the polling loop time cycle is comprised of a plurality of time slots and each time slot comprises a first time segment and a second time segment, wherein the wireless device is configured to receive a base signal, responsive to the user signal, in the second time segment of a second time slot; and wherein the number of time segments between the first time slot and the second time slot is variable.

71. (New) The device of claim 70 wherein the polling loop time cycle is followed by a second polling loop time cycle that has the same duration.

72. (New) The device of claim 70 wherein each of the plurality of time slots has the same duration.

73. (New) The device of claim 70 wherein each of the plurality of time slots further comprises a guard interval.

74. (New) The device of claim 70 wherein the user signal comprises a user preamble and a user sounding gap.

75. (New) The device of claim 70 wherein the base signal comprises a power adjustment command directed to said user station.

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76. (New) The device of claim 75 wherein the power adjustment command is based on a received signal strength of the user signal.

77. (New) A base station for wireless communication comprising:

a transceiver adapted to transmit and receive spread spectrum signals in reserved segments of a plurality of time slots, wherein at least one of the spread spectrum signals to be transmitted comprises a general polling signal in a segment of a time slot and at least one of the spread spectrum signals to be received comprises a general polling response signal from one or more user stations in a different segment of an available time slot; and

a processing circuit coupled to the transceiver to process channel characterization information of the spread spectrum signals to be received, and to select one or more of a plurality of antennas and transmit power level for use in a subsequent transmission .

78. (New) The base station of claim 77 wherein the base station is further adapted to transmit a power adjustment command to each user station for the user station to adjust its transmission power level.

79. (New) The base station of claim 77 wherein each of the plurality of time slots comprises a user station transmit field, a base processor gap, a guard time, and a base transmit field.

80. (New) The base station of claim 77 wherein the general polling response signal includes information identifying a particular user identification and information for sounding available communication links between the base station and the particular user station.